

Application No.: 09/898,398  
Applicant: Hutchison  
Filed: July 3, 2001  
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### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims

1-61. (Cancelled)

62. (Currently amended) A kit comprising an antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1 including a first portion selected from the group consisting of amino acid 1 of SEQ ID NO: 1, and amino acids 1 and 2 of SEQ ID NO: 1; and a second portion consisting of amino acids located between amino acids 7-13 of SEQ ID NO: 1.

63. (Previously presented) The kit of claim 62, further comprising a detectable label coupled to the antibody.

64. (Previously presented) The kit of claim 63, wherein the detectable label is selected from the group consisting of chemiluminescent markers, fluorescent markers, radioactive markers, and enzymatic markers.

65. (Previously presented) The kit of claim 63, wherein the detectable label is an acridinium ester.

66. (Previously presented) The kit of claim 62, further comprising tools for obtaining a biological sample containing parathyroid hormone from a patient.

67. (Currently amended) An isolated antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1 including a first portion consisting of amino acid 1 of SEQ

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ID NO: 1 and a second portion consisting of amino acids located between amino acids 7-13 of SEQ ID NO: 1.

68. (Previously presented) The antibody of claim 67, wherein the antibody is a polyclonal antibody.
69. (Previously presented) A composition comprising the antibody of claim 67.
70. (Currently amended) A method for detecting bioactive parathyroid hormone in a sample, comprising
- a) exposing a sample to an antibody that recognizes and binds a bioactive three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1 including a first portion selected from the group consisting of amino acid 1 of SEQ ID NO: 1, and amino acids 1 and 2 of SEQ ID NO: 1; and a second portion consisting of amino acids located between amino acids 7-13 of SEQ ID NO: 1; and
  - b) detecting an antibody-hormone complex of the antibody and the parathyroid hormone, thereby detecting the bioactive parathyroid hormone in the sample.
71. (Previously presented) The method of claim 70, wherein the antibody that recognizes and binds the bioactive three-dimensional epitope of parathyroid hormone is coupled with a detectable marker.
72. (Previously presented) The method of claim 70, further comprising exposing the antibody-hormone complex to another antibody that recognizes and binds parathyroid hormone before step (b).
73. (Previously presented) The method of claim 70, wherein the detecting step comprises measuring a chemiluminescent signal.

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74. (Currently amended) An isolated antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope including a first portion ~~located between amino acids 1-6~~ consisting of amino acids 1-2 of SEQ ID NO: 1 and a second portion ~~located between amino acids 7-13~~ consisting of amino acids located between amino acids 7-13 of SEQ ID NO: 1.

75. (Cancelled).

76. (Previously presented) The antibody of claim 74 coupled to a detectable label.

77. (Previously presented) The antibody of claim 74 coupled to an acridinium ester.

78. (Cancelled)

79. (Previously presented) The antibody of claim 74 wherein the antibody is a polyclonal antibody.

80. (Previously presented) A composition comprising the antibody of claim 74.

81. (Currently amended) The antibody of claim 74, wherein ~~the first portion consists of amino acids 1-2 of SEQ ID NO: 1, and~~ the second portion consists of amino acids 10-13 of SEQ ID NO: 1.

82. (Cancelled)

83. (New) The kit of claim 62, wherein the second portion consists of amino acids 10-13 of SEQ ID NO: 1.

84. (New) The antibody of claim 67, wherein the second portion consists of amino acids 10-13 of SEQ ID NO: 1.

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85. (New) The method of claim 70, wherein the second portion consists of amino acids 10-13 of SEQ ID NO: 1.